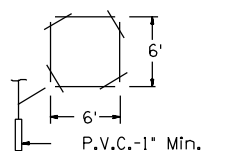
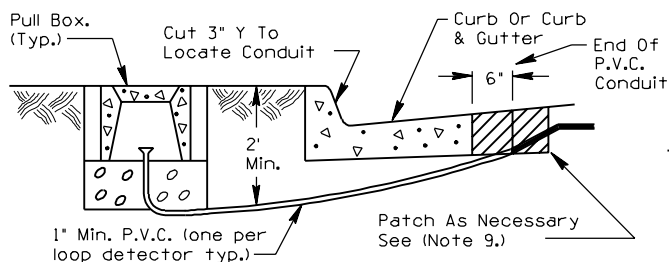


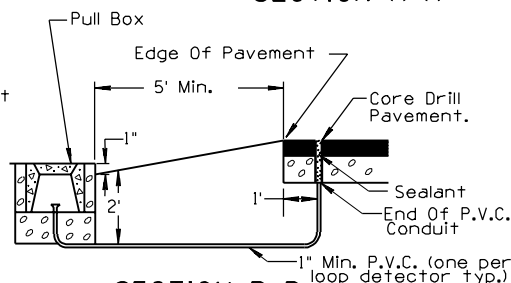
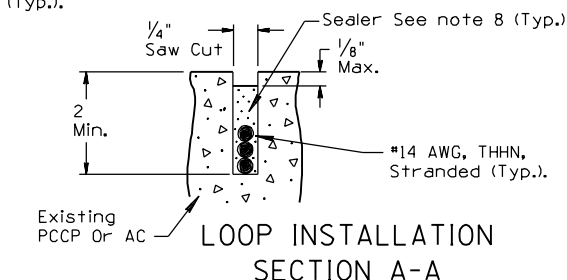
LOOP INSTALLATION IN MULTI-LANE DIVIDED HIGHWAY



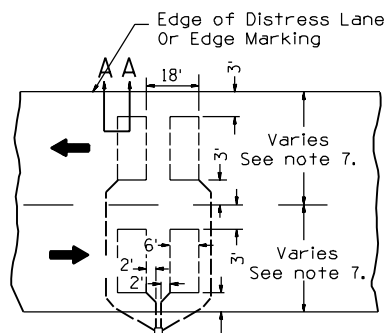
SAW CUT DETAIL



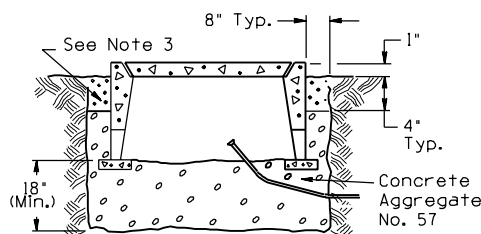
SECTION B-B WITH CURB & GUTTER DETAIL A



SECTION B-B WITHOUT CURB & GUTTER DETAIL B



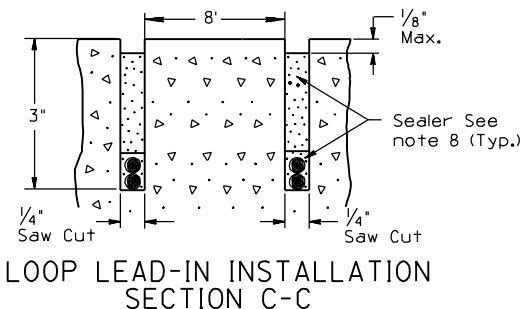
LOOP INSTALLATION IN UNDIVIDED HIGHWAY



TYPICAL PULL BOX INSTALLATION

NOTES:

1. Speed monitoring/vehicle classification/weigh-in-motion systems require 2 loops per lane, centered in lane with an 18' separation, leading edge to leading edge. Leading edges of both loops must be parallel to each other with no more than 1" variation across the face of the loops.
2. 6' x 6' loops with 3 turns of sheathed, THHN stranded, 14 AWG, single conductor, copper wire are standard for all travel lanes up to 12 feet in width. For lanes wider than 12 feet adjust width of loop to allow for 3 feet from center stripe and lane edge marking while maintaining 6 foot depth of the loop.
3. Backfill with excavated material and thoroughly tamp.
4. Where pull boxes are installed in concrete areas, 1/2" felt shall be used as an expansion joint.
5. All excavated material not reused shall be properly disposed of.
6. Loops to be placed in travel lanes (roadway width less painted distress lane or edge marking = travel lanes).
7. For lanes wider than 12 feet in width, adjust width of loop detector to allow 3 feet from lane stripe to loop detector and 3 feet from lane detector to next lane stripe across all lanes. Maintain 6 foot travel direction dimension of loop detector.
8. Saw cut sealant for detector loops in AC shall be the emulsified crack filler sealant per the Standard Specifications. The sand shall be pre-mixed by the manufacturer. Sealant for detector loops in PCCP shall be the Elastomeric Sealant per the Standard Specifications, or an approved two-part epoxy loop sealant.
9. Use same material (or approved equal) for patching existing pavement. Patch to at least 1/4" greater thickness than existing pavement.
10. Contact TPD Data Section at (602-712-8598) or (602-712-8596) no less than 7 working days prior to installation of the loop detectors. TPD Data Section will have a technician available to oversee the installation, and to answer any questions pertaining to the proper installation and layout of the ATR components.



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ARIZONA DEPT. OF TRANSPORTATION
INTERMODAL TRANSPORTATION DIVISION
TRAFFIC SIGNALS & LIGHTING
STANDARD DRAWINGS

DETECTOR LOOPS FOR
SPEED/VEHICLE CLASS.

DRAWING NO.
T.S. 7-3